

Name: 6β-Acetyl Norethindrone Acetate
(Norethindrone Acetate EP Impurity D)

Lot#: GR-8-037

Test Date: 02/23/2021 (re-test date: 02/23/2026)

CAS No.: NA

MF: C₂₄H₃₀O₄

MW: 382.49

Appearance: White solid

Purity: 97.1% by HPLC (average of two sample preparations)

¹H-NMR: Conforms

MS-ESI (+) Conforms (shows peak at m/z = 383.22 [M+H]⁺)

Storage Store at 0-5°C in a dry place away from direct sunlight

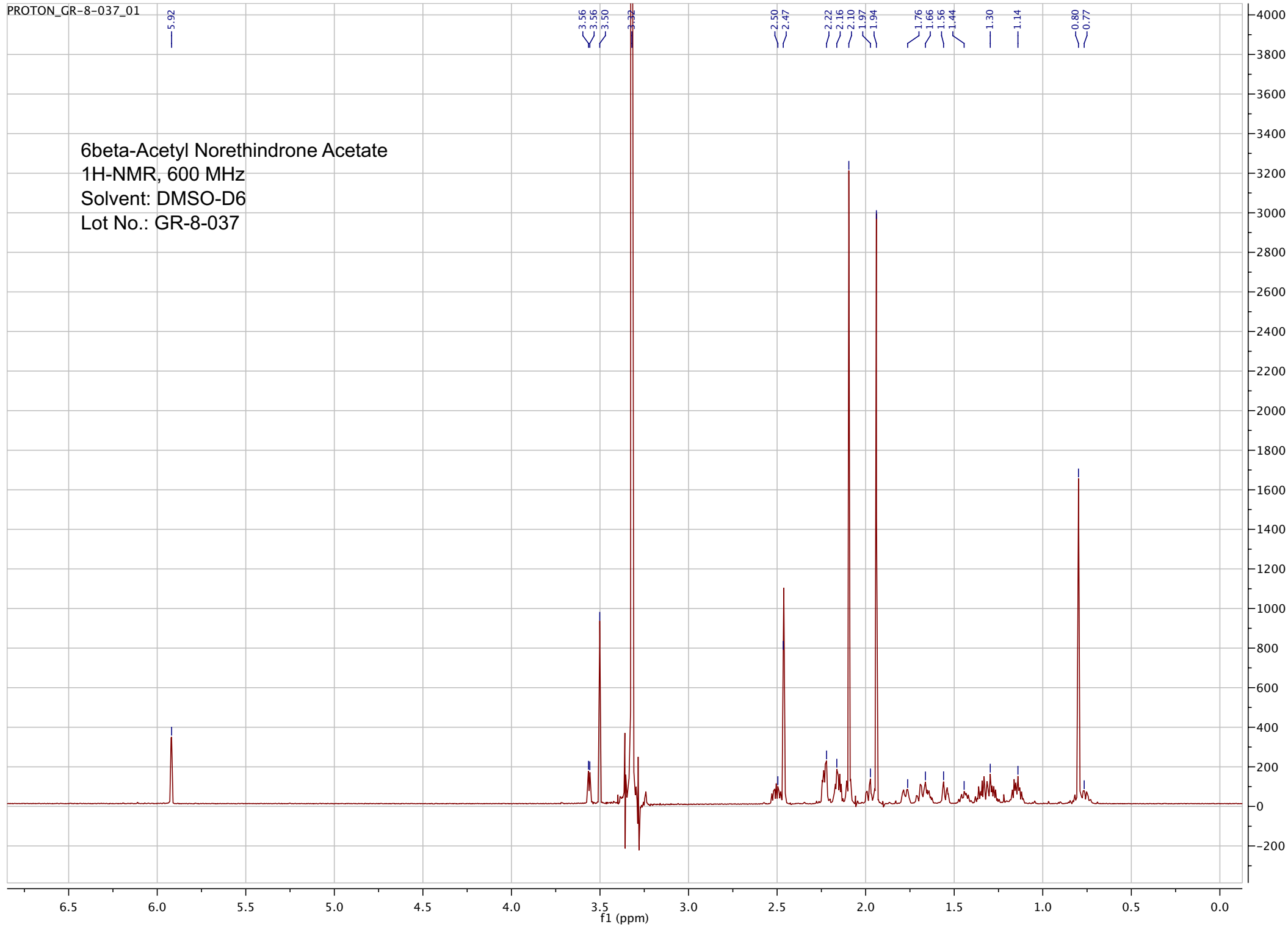
Approved by:

Date: 04/19/2021



Viorica Rusu, QC/QA Manager

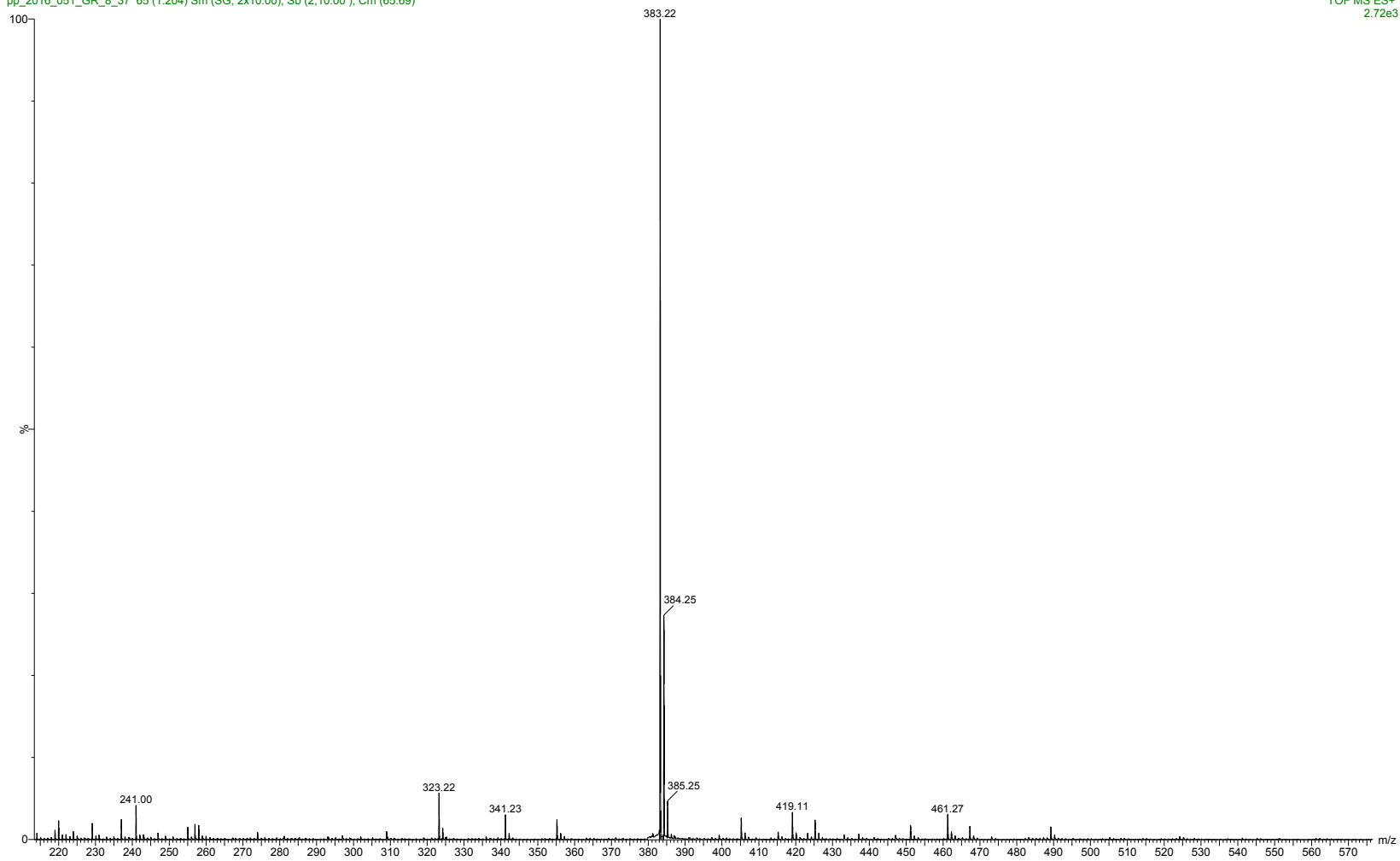
6beta-Acetyl Norethindrone Acetate
1H-NMR, 600 MHz
Solvent: DMSO-D6
Lot No.: GR-8-037



pp_2016_051_GR_8_37 65 (1.204) Sm (SG, 2x10.00); Sb (2,10.00); Cm (65.69)

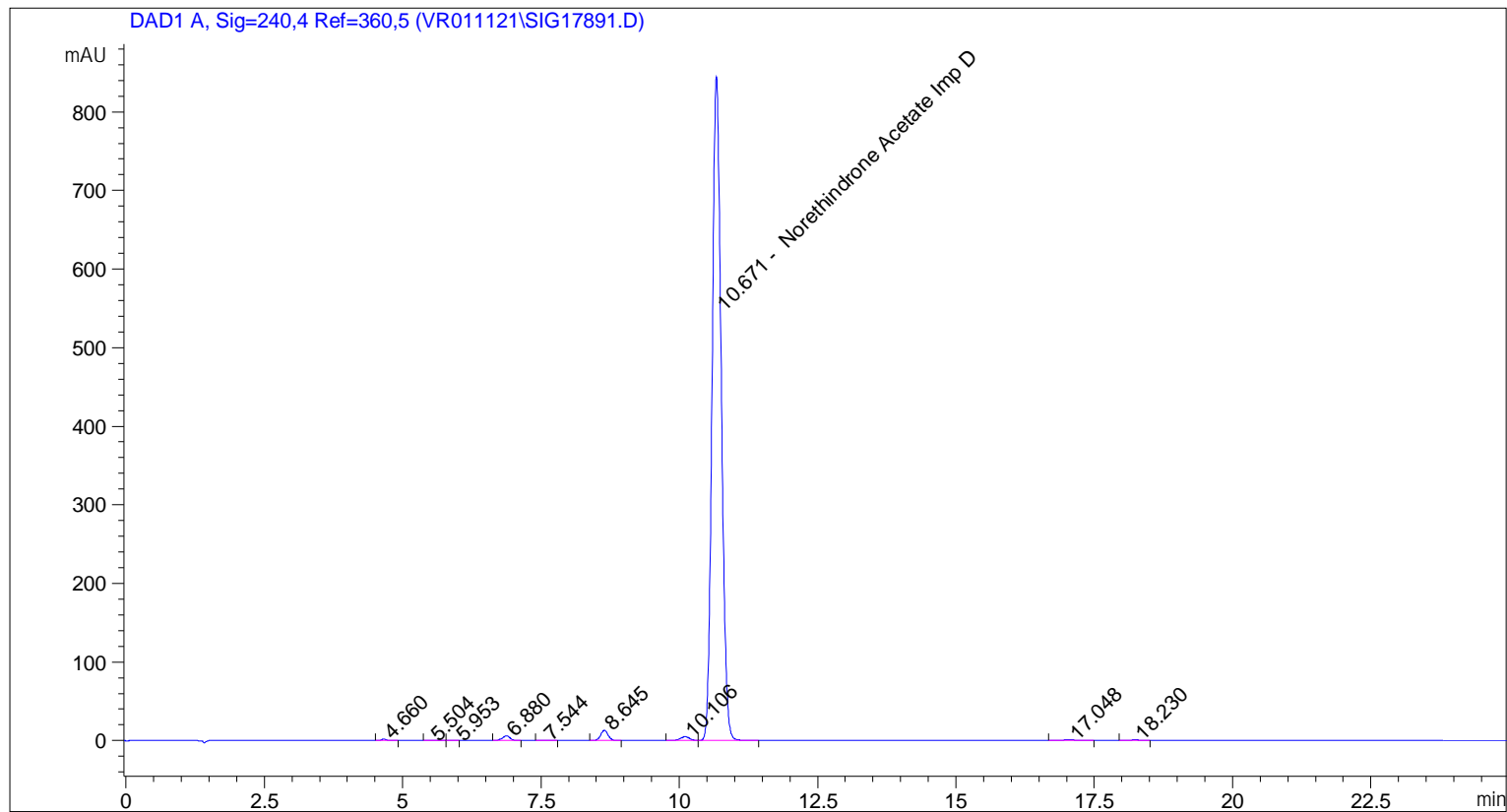
7.0000000

25-May-2016, 16:48:54
TOF MS ES+
2.72e3



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=====
Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 5
Injection Date  : 2/23/2021 1:04:39 PM
                                           Inj Volume : 5.0 µl
Acq. Method     : C:\CHEM32\1\METHODS\VR022321_037.M
Last changed    : 2/23/2021 1:03:43 PM by vrusu
Analysis Method  : C:\CHEM32\1\METHODS\VR022321_037PM.M
Last changed    : 2/23/2021 2:18:32 PM by vrusu
  
```



=====
 Area Percent Report
 =====

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Sorted By           :      Signal
Calib. Data Modified :      2/23/2021 2:18:13 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=240,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	4.660	BB	0.0960	11.43723	0.1145	?
2	5.504	BV	0.1454	3.63901	0.0364	?
3	5.953	VV	0.1108	1.58949	0.0159	?
4	6.880	BB	0.1430	60.24160	0.6030	?
5	7.544	BB	0.1237	5.57775	0.0558	?
6	8.645	BB	0.1483	122.65472	1.2277	?
7	10.106	BV	0.1861	58.49075	0.5855	?
8	10.671	VB	0.1780	9699.40527	97.0876	Norethindrone Acetate Imp D

Sample Name: GR-8-037

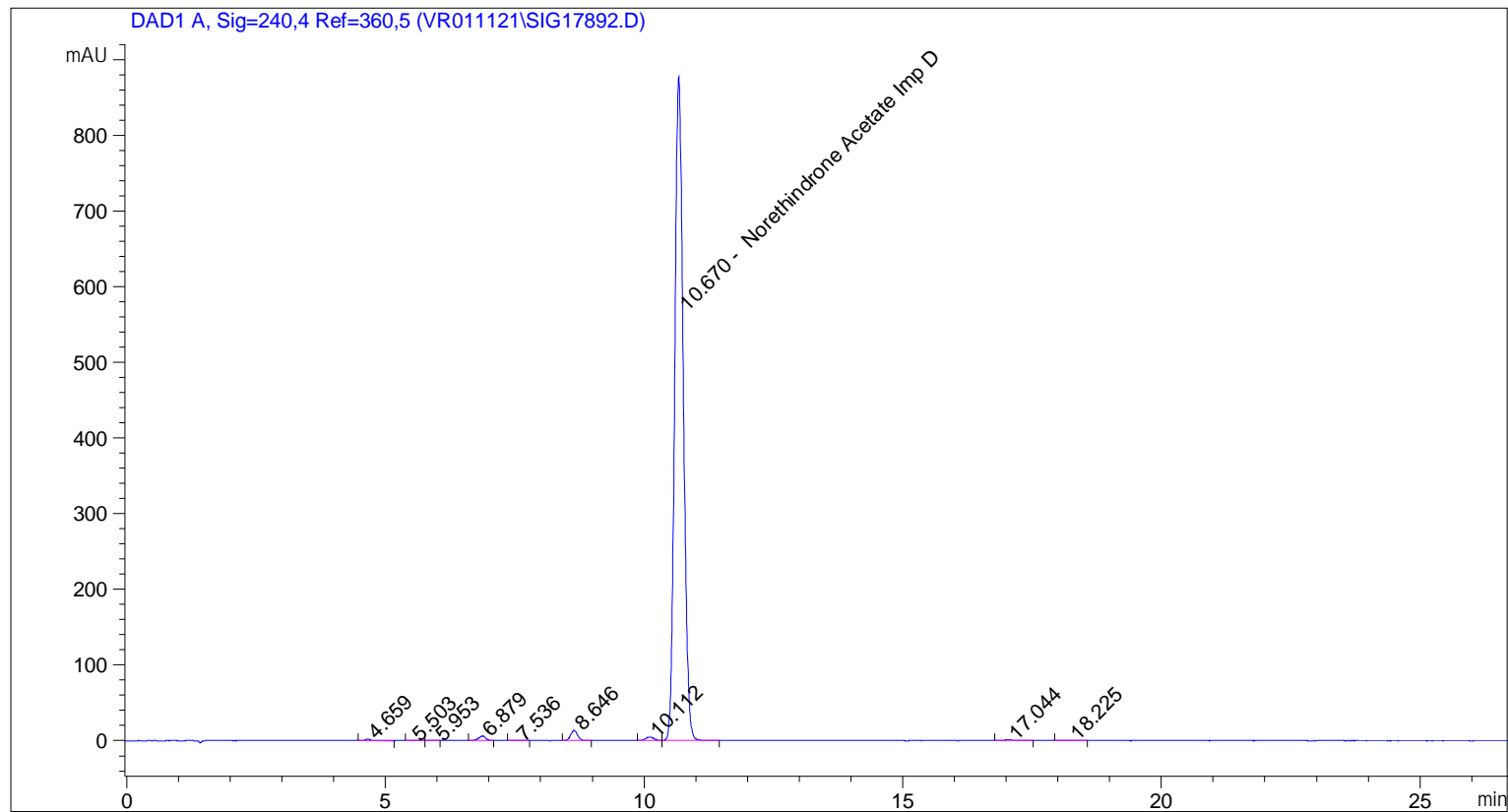
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
9	17.048	BB	0.2367	16.76311	0.1678	?
10	18.230	BB	0.2025	10.56166	0.1057	?

Totals : 9990.36060

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*** End of Report ***

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=====
Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 6
Injection Date  : 2/23/2021 1:32:23 PM
                                           Inj Volume : 5.0 µl
Acq. Method     : C:\CHEM32\1\METHODS\VR022321_037.M
Last changed    : 2/23/2021 1:31:27 PM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR022321_037PM.M
Last changed    : 2/23/2021 2:18:32 PM by vrusu
  
```



=====
 Area Percent Report
 =====

```

Sorted By           :      Signal
Calib. Data Modified :      2/23/2021 2:18:13 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=240,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	4.659	BB	0.1064	15.41500	0.1477	?
2	5.503	BV	0.1731	4.68976	0.0449	?
3	5.953	VV	0.1631	3.33931	0.0320	?
4	6.879	BB	0.1419	58.86316	0.5641	?
5	7.536	BB	0.1446	6.40450	0.0614	?
6	8.646	BB	0.1484	126.77605	1.2148	?
7	10.112	BB	0.1710	53.49302	0.5126	?
8	10.670	BB	0.1809	1.01373e4	97.1414	Norethindrone Acetate Imp D

Sample Name: GR-8-037 spl-2

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
9	17.044	BB	0.2072	14.76154	0.1415	?
10	18.225	BB	0.2297	14.56776	0.1396	?

Totals : 1.04356e4

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*** End of Report ***